

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) Screw actuator, comprising a housing, a motor, an actuating member and a screw mechanism which provides a linear movement of the actuating member with respect to the housing in response to a rotational movement of the motor, which screw mechanism comprises a screw, a nut engaging each other by a plurality of first rolling elements, and a reduction gear means, wherein the nut is axially fixed with respect to the housing, and the screw is rotatably supported with respect to the housing by means of the rolling elements and wherein the screw engages the actuating member through a plurality of second rolling element elements capable of carrying at least one of an axial load and a radial load.

2. (Previously Presented) Actuator according to claim 1, wherein the screw is rotationally driven by the reduction gear means through a coupling means which allows axial displacements.

3. (Previously Presented) Actuator according to claim 2, wherein the coupling means comprises a shaft accommodated within a bore in the screw, the surface of the shaft and bore having axial grooves which engage each other through balls.

4. (Previously Presented) Actuator according to claim 1, wherein the reduction gear means is contained in a reduction gear module and the screw mechanism is contained in a screw mechanism module.

5. (Previously Presented) Actuator according to claim 4, wherein the reduction gear means comprises at least two gear reduction steps.

6. (Previously Presented) Actuator according to claim 4, wherein the reduction gear means comprises at least one of a planetary gear reduction step and a right angle gear reduction step.

7.-8. (Canceled)

9. (Previously Presented) Actuator according to claim 1, wherein the actuating member is a piston, which is slidably held within a cylinder space of the housing.

10. (Currently Amended) Actuator according to claim 1, wherein the piston (40) is held non-rotatably by means of a groove and pin assembly, or by means of a ball/groove assembly.

11. (Canceled)

12. (Previously Presented) Actuator according to claim 9, wherein the cylinder space is formed in the housing.

13. (Original) Actuator according to claim 4, wherein the modules are axially aligned.

14.-15. (Canceled)

16. (Previously Presented) Actuator according to claim 4, wherein the reduction gear means comprises at least part of a planetary gear system having a stationary outer ring gear with inwardly pointing gear teeth.

17. (Previously Presented) Actuator according to claim 16, wherein the reduction gear means comprises satellite gear wheels which mesh with the ring gear and which are accommodated on a carrier connected to the shaft engaging the screw mechanism.

18. (Currently Amended) Actuator according to claim 17, wherein the sun gear wheel of the reduction gear means is connected to a bevel gear which mates with a motor gear, by an angled or right angled gear transmission.

19. (Previously Presented) Actuator according to claim 18, wherein the sun gear wheel and the bevel gear are carried out as a unitary gear wheel which is supported with respect to the nut of the screw mechanism by means of rolling element bearing.

20. (Previously Presented) Actuator according to claim 18, wherein the pitch diameter of the bevel gear is larger than the pitch diameter of the sun gear wheel.

21. (Previously Presented) Actuator according to claim 1, wherein a sensor is provided for detecting rotational and/or translational movements of the screw mechanism.

22.-23. (Canceled)

24. (Previously Presented) Actuator according to claim 1, wherein balls or rollers of the screw mechanism are coated so as to maintain the proper function of the screw under dry-running conditions with a diamond-like carbon coating.

25. (Previously Presented) Actuator according to claim 1, wherein the motor is an electric motor.

26.-28. (Canceled)

29. (Previously Presented) Actuator according to claim 1, wherein the screw mechanism comprises rolling balls, and the grooves in the screw and nut are arranged for adapted contact angles in view of improved axial load bearing capacity.

30. (Previously Presented) Brake caliper for an electrically actuatable disc brake, said caliper comprising an actuator according to claim 1, and a claw piece carrying two opposite brake pads said actuator comprising a screw mechanism the screw of which is rotatably supported with respect to the housing by means of the balls of the screw mechanism, a reduction gear means and a motor.

31-34. (Canceled)